STATE OF NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES (DES) WATER DIVISION

P.O. Box 95, 6 Hazen Drive Concord, NH 03302-0095 Telephone # (603)-271-3406, Fax # (603)-271-7894

Email: damsafety@des.state.nh.us

APPLICATION FOR A PERMIT FOR AN EXISTING DAM

In compliance with the provisions of RSA 482:5 or RSA 482:6

| APPLICANT: | |
|--|---|
| hereby makes application to the Dept. of Environmental S | ervices, Water Division (DES) for the permitting of an |
| existing, non-permitted dam located on/adjacent to; | |
| | |
| | |
| (Name of stream, river or Waterbody, i | f applicable) |
| in | |
| (Name of Town of City) | (County) |
| A descriptive plan will accompany this application a detailed information may be requested by the DES in comrequested it will be supplied to the DES. | |
| The purpose of the existing dam is | |
| (State use of | f stored water, i.e.: detention, water supply) |
| The maximum height of the existing structure is lowest point of the existing ground surface on the downstr which may impound water.) | feet. (The height is the vertical distance from the ream side of the structure to the highest point of the dam, |
| The applicant certifies that he/she owns or has flo temporarily flowed by the within described dam. Under th that the above information, to the best of his/her knowledge | |
| DAM OWNER | PROPERTY OWNER (If other than Dam Owner) |
| Name (Type or print) | Name (Type or print) |
| Name (Signature) | Name (Signature) |
| Address: | Address: |
| Telephone #: | Telephone #: |
| Email address: | Email address: |
| There is no charge for the initial filing of this application An additional filing fee may be required upon determination of hazard classification. | ADDITIONAL CLASSIFICATION FEE: Class A, Low hazard - \$100 Class B, Significant hazard - \$250 |

Class C, High hazard - \$500

BASIC DATA

Print in Ink or type:

| a LICCO Occadranale. | | h Tay N | 1004. | | 1 04 44. | |
|---|---|--------------------------|--|------------------------------------|----------------|-------------------------|
| a. USGS Quadrangle: Scale: | | | b. Tax Map#: Attach copy of Tax Map | | LOT #: | |
| (Upper, Lower) Circle a (Right, Left) referen | appropriate corner ce within parenthesis | c. Latit | tude: | | | |
| | nes (left, right) | | | | | |
| 2. Drainage area: | (acres/sq. m | ni.) | | | | |
| 3. Pond area at: normal | stage: | acres. | Max | ximum stage: | | acres. |
| 4. Artificial storage capa | city at normal stage: | | ac-ft. | Maximum stag | je: | ac-ft. |
| 5. Length of dam (meas | ured along the top of ex | disting stru | ucture): | · | ft. | |
| 6. Description of existing | g dam structure: (i.e. – | earth emb | oankme | ent w/concrete s | pillway) | |
| | | | | | | |
| | | | | | | |
| 7. Description of materia | al on which dam is cons | tructed: (i | .e. – le | edge, glacial till) | | |
| 8. Description of all outle | | nd drains, | drop in | nlets, emergenc | y spillways, e | etc.) |
| 8. Description of all outle Include appropriate le | et works: (spillways, por ngths, widths, diameter | nd drains, | drop ir | nlets, emergenc s. | | , |
| 8. Description of all outle Include appropriate le | et works: (spillways, por ngths, widths, diameter cy: 50-year 100-ye | nd drains, rs and ele | drop in | nlets, emergenc s. 0.50 PMP | PMP (circle a | etc.) appropriate storn |
| 8. Description of all outle Include appropriate le 9. Design storm frequen | et works: (spillways, por ingths, widths, diameter cy: 50-year 100-ye | nd drains, rs and ele | drop invations | nlets, emergenc s. 0.50 PMP | PMP (circle a | appropriate storn |
| 8. Description of all outle Include appropriate le 9. Design storm frequen 10. Design storm inflow: | et works: (spillways, por ingths, widths, diameter cy: 50-year 100-ye | ear 0.30 | drop invations PMP cfs | nlets, emergenc s. 0.50 PMP | PMP (circle a | appropriate storn |
| 8. Description of all outle Include appropriate le 9. Design storm frequen 10. Design storm inflow: | et works: (spillways, por ingths, widths, diameter cy: 50-year 100-year cfs routed fi | ear 0.30 | drop in vations O PMP cfs o top of | onlets, emergences. 0.50 PMP Rema | PMP (circle a | appropriate storn |
| 8. Description of all outle | et works: (spillways, por engths, widths, diameter cy: 50-year 100-year cfs routed for di: cfs –no oper | ear 0.30 | drop invations O PMP cfs top of | 0.50 PMP Rema | PMP (circle a | appropriate storn |

The information on or submitted with this application should be as complete as possible. The attached sheet will assist the applicant in submitting an existing dam application that is as complete as possible. Additional and more specific information and design requirements are included in the NH Code of Administrative Rules, Chapter Env-Wr 100 – 800, which can be obtained from our office or viewed at http://www.des.state.nh.us/dam/env-wr100-800.html

DAM CONSTRUCTION/RECONSTRUCTION APPLICATION CHECK LIST

| □ C | ompleted dam | construction/re | econstruction | application | with initial | app fee | - \$250. | All applications |
|-----|--------------|-----------------|---------------|-------------|--------------|---------|----------|------------------|
|-----|--------------|-----------------|---------------|-------------|--------------|---------|----------|------------------|

| | class C - \$1,000. | | | | | |
|-----|--|--|--|--|--|--|
| | Location map sufficient in detail to locate project | | | | | |
| | Written Operation & Maintenance Plan (see attached guidelines) | | | | | |
| | Results of any subsurface explorations | | | | | |
| | Results of all structural analyses, which may include but not be limited to, stability analyses for overturning, sliding and slope failure | | | | | |
| | Results of hydrologic & hydraulic calculations, which show the dam has the capacity to safely discharge the design storm with 1' freeboard without manual operations; class AA-Q50, class A-Q100 or 0.30PMP, class B-0.50 PMP, class C-PMP. Include the stage-discharge table and stage-storage table for the outlet structure. | | | | | |
| | Present documentation proving ownership of flowed land or flowage rights, in accordance with Env-Wr 305.10 (j). | | | | | |
| | Results of a seepage analysis (for class B & class C dams only) | | | | | |
| | Draft EAP (for class B or C dams only) | | | | | |
| Cor | Instruction plans and specifications, which meet our rules and guidelines: To-scale plan view To-scale cross section of dam through outlet; showing elevations, watertight connections, etc. 2.5:1 minimum side slopes for earth embankments; 3:1 preferred Minimum top width of 6' for earth embankments; 8' preferred Gradation analysis for all soils Compaction specifications with maximum lift thickness – Minimum 95% of Modified Proctor Compaction requested Earth emergency spillway in natural ground Pond drain (not required for class AA dams but recommended) Design stamped by PE licensed in NH (not required for class AA dams) Construction sequence Construction inspection plan, subject to ENV-Wr 501.02 | | | | | |
| | Plans should be suitable for use for construction purposes | | | | | |

must be signed by the owner of the property <u>and</u> the owner of the dam, if different. Additional classification fee may be requested by DES following a preliminary review of the application. This is dependent upon the hazard classification assigned to the dam: class A - \$250, class B - \$750,

The information included on this sheet is intended to assist the applicant in submitting an initial application that is as complete as possible. Additional and more specific information and design requirements are included in the NH Code of Administrative Rules, Chapter Env-Wr 100 – 800, which can be obtained from our office or viewed at http://www.des.state.nh.us/dam/env-wr100-800.html.

January 2003

Seasonal Operation

- Control of summer water level maintaining a specific reservoir, pond or lake water level
- Fall water level drawdown procedure to allow for spring runoff, if any
- Spring time operations to return water to recreation level

Maintenance Program

Listing of periodic maintenance performed to maintain dam and facilities in a safe operational condition, such as:

- Removal of tree and brush growth from earthen embankments and abutments when needed
- Establish an operational plan for operating gates and lubricating lifting mechanisms
- Repairing or replacing operating mechanisms of outlet works that are inoperable
- Removal of debris from intake structures and spillways periodically to maintain clear openings
- Clearing of upstream and downstream channels when needed to maintain a free flowing condition
- Replacement of wooden structural members which may be deteriorated as needed
- Visual inspection for seepage and subsequent monitoring of any active seepage to be done on a frequently scheduled basis – bi weekly
- Maintaining exposed steel in a well painted state
- Repairing with suitable material and earthen section experiencing erosion and maintain proper vegetation on earthen embankments to ensure erosion protection
- Repairing of spalled or eroded concrete surfaces
- Testing of Emergency Action Plan (EAP) for class B or class C dams

Emergency Contact Person

The DES maintains a list of emergency contact personnel for all potentially hazardous dams. This should include the name and telephone number of key personnel and should be upto-date.

Items to consider

- Dam operations under emergency conditions establish responsibility of dam operation and a lake or pond reservoir regulation plan to be implemented under emergency conditions
- Local warning system communication to residents in flood area by local authorities or dam operators, of imminent danger to allow time to evacuate area.

(SKETCH OF DAM)